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Chapter 1:

Safety Guidelines

To avoid personal injury and property damage, carefully follow all the safety steps listed below when accessing your system or handling the components.

1-1 ESD Safety Guidelines

_Electric Static Discharge (ESD) can damage electronic components. To prevent damage to your system, it is important to handle it very carefully. The following measures are generally sufficient to protect your equipment from ESD._

- Use a grounded wrist strap designed to prevent static discharge.
- Touch a grounded metal object before removing a component from the antistatic bag.
- Handle the RAID card by its edges only; do not touch its components, peripheral chips, memory modules or gold contacts.
- When handling chips or modules, avoid touching their pins.
- Put the card and peripherals back into their antistatic bags when not in use.

1-2 General Safety Guidelines

- Always disconnect power cables before installing or removing any components from the computer, including the backplane.
- Disconnect the power cable before installing or removing any cables from the backplane.
- Make sure that the backplane is securely and properly installed on the motherboard to prevent damage to the system due to power shortage.

1-3 An Important Note to Users

- All images and layouts shown in this user's guide are based upon the latest PCB Revision available at the time of publishing. The card you have received may or may not look exactly the same as the graphics shown in this manual.
Chapter 2:

Jumper Settings and Pin Definitions

2-1 Front Connectors and Jumpers

Front Connectors
1. Power Connectors (4-pin) JP10 and JP13
2. SAS Port #0 J5
3. SAS Port #1 J6
4. SAS Port #2 J7
5. SAS Port #3 J8
2-2 Front Connector and Pin Definitions

1. Backplane Main Power Connectors
   The 4-pin connectors, designated JP10 and JP13, provide power to the backplane. See the table on the right for pin definitions.

<table>
<thead>
<tr>
<th>Pin#</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>+12V</td>
</tr>
<tr>
<td>2 and 3</td>
<td>Ground</td>
</tr>
<tr>
<td>4</td>
<td>+5V</td>
</tr>
</tbody>
</table>

2. - 5. SAS Ports
   The SAS ports are used to connect the SAS drive cables. The four ports are designated #0 - #4. Each port is also compatible with SATA drives.
Explanation of Jumpers

To modify the operation of the backplane, jumpers can be used to choose between optional settings. Jumpers create shorts between two pins to change the function of the connector. Pin 1 is identified with a square solder pad on the printed circuit board. Note: On two pin jumpers, "Closed" means the jumper is on and "Open" means the jumper is off the pins.

<table>
<thead>
<tr>
<th>Jumper</th>
<th>Jumper Settings</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>JP18</td>
<td>Open: Enabled Closed: Disabled</td>
<td>Buzzer Reset</td>
</tr>
</tbody>
</table>
FRONT LED INDICATORS

Front Pane LEDs

<table>
<thead>
<tr>
<th>LED</th>
<th>STATE</th>
<th>SPECIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>D3</td>
<td>ON</td>
<td>Overheat/Fan Failure LED Indicator</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(Red light: flashing, Buzzer: On)</td>
</tr>
</tbody>
</table>
2-4 Rear Connectors and LED Indicators

Rear SAS/SATA Connectors

<table>
<thead>
<tr>
<th>Rear Connector</th>
<th>Connector Number</th>
<th>SAS Drive Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAS #0</td>
<td>J1</td>
<td>SAS/SATA HDD #0</td>
</tr>
<tr>
<td>SAS #1</td>
<td>J2</td>
<td>SAS/SATA HDD #1</td>
</tr>
<tr>
<td>SAS #2</td>
<td>J3</td>
<td>SAS/SATA HDD #2</td>
</tr>
<tr>
<td>SAS #3</td>
<td>J4</td>
<td>SAS/SATA HDD #3</td>
</tr>
</tbody>
</table>

Rear LED Indicators

<table>
<thead>
<tr>
<th>Rear Connector</th>
<th>Hard Drive Activity</th>
<th>Failure LED</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAS #0</td>
<td>D12</td>
<td>D5</td>
</tr>
<tr>
<td>SAS #1</td>
<td>D13</td>
<td>D6</td>
</tr>
<tr>
<td>SAS #2</td>
<td>D14</td>
<td>D7</td>
</tr>
<tr>
<td>SAS #3</td>
<td>D15</td>
<td>D8</td>
</tr>
</tbody>
</table>